

# PRELIMINARY REPORT OF 040407

ATTENTION: This report is automatically generated no comments are provided on data analysis

**last update on Wed Apr 7 12:40:01 GMT 2004**

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## 1 - Introduction

This report is based on the analysis of wave mode level-1 cross spectra (ASA\_WVS\_1P) products, which are the available few hours after the acquisition, on the high rate browse (BP) products and on the Module Stepping (MS) product.

## 2 - Summary

### 2.1 - Instrument Unavailability

No unavailabilities during the reported period.

### 2.2 - Browse Visual Inspection

No anomalies observed on available browse products

## 2.3 - Data Analysis

- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

## 3 - Module Stepping Mode

The MS mode provides an internal health check on an individual module basis. The purpose of this mode is to identify any malfunctioning modules and to identify modules for which calibration offsets are to be applied. No anomalies observed on available MS products:

- ASA\_MS\_\_0PNPDK20040406\_194657\_000000152025\_00414\_10989\_0057.N1
- ASA\_MS\_\_0PNPDK20040406\_194817\_000000152025\_00414\_10989\_0056.N1

Polarisation	Start Time
V	20040406 194817
H	20040406 194657

### MSM in V/V polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
☒	☒
☒	☒
☒	☒
☒	☒

### MSM in H/H polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
☒	☒
☒	☒
☒	☒
☒	☒

## 4 - Internal calibration Results

No anomalies observed.

#### 4.1 - Daily statistics



#### 4.2 - Cyclic statistics



#### 4.3 - cal pulses monitoring (all rows)



### 5 - RAW data statistics

No anomalies observed.

#### 5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000480804
	stdev	2.34686e-07
MEAN Q	mean	0.000489024
	stdev	2.64669e-07



#### 5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.128298
	stdev	0.00117764
STDEV Q	mean	0.128551
	stdev	0.00119147



### 5.3 - Gain imbalance I/Q



## 6 - Doppler Analysis

No anomalies observed in Doppler evolution.  
Analysis performed over the last 35 days.

### 6.1 - Unbiased Doppler Error

#### Evolution of unbiased Doppler error (Real - Expected)

Ascending
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Descending
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### 6.2 - Absolute Doppler

#### Evolution of Absolute Doppler

Ascending
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Descending
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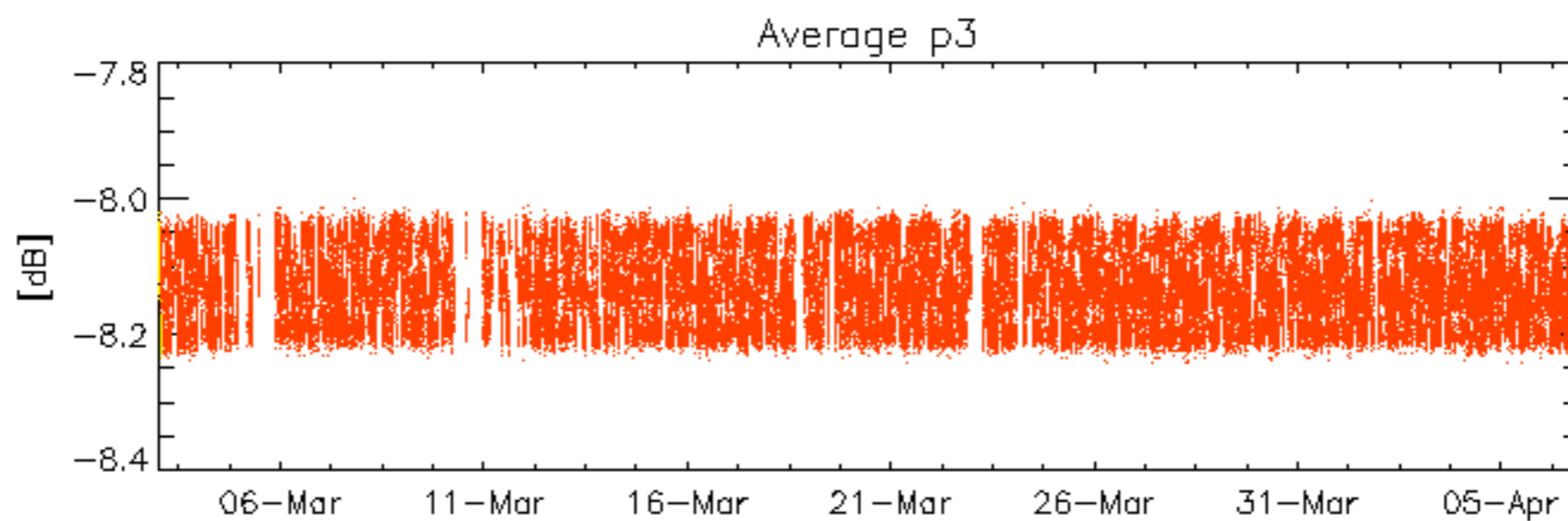
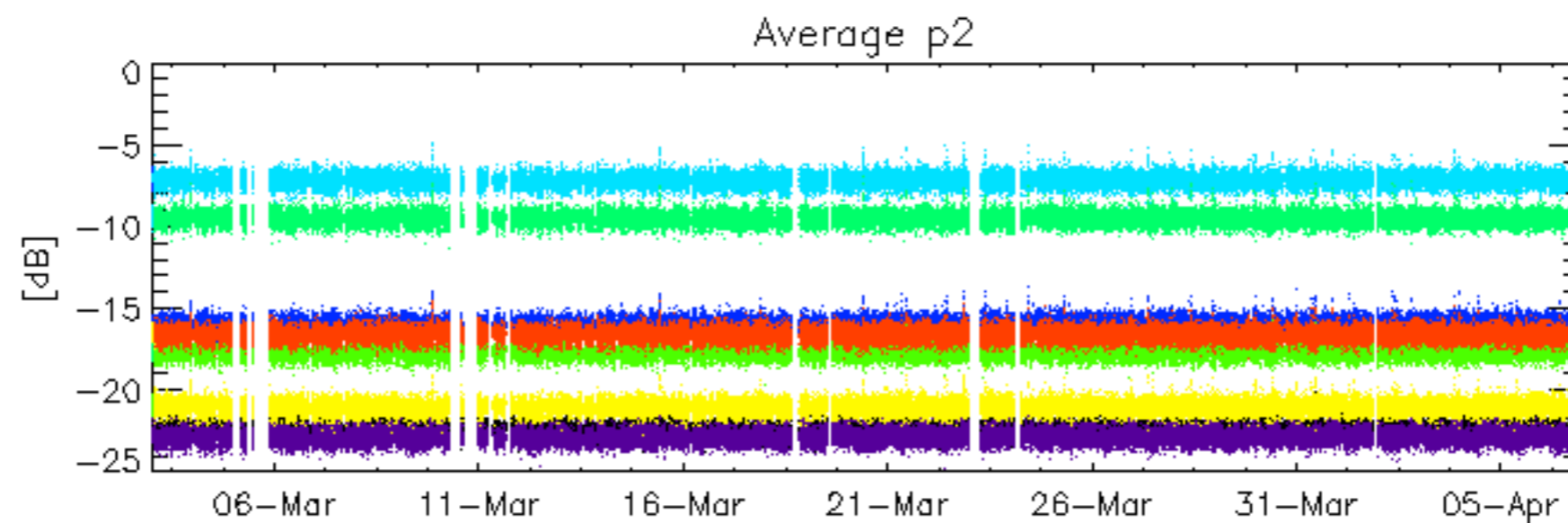
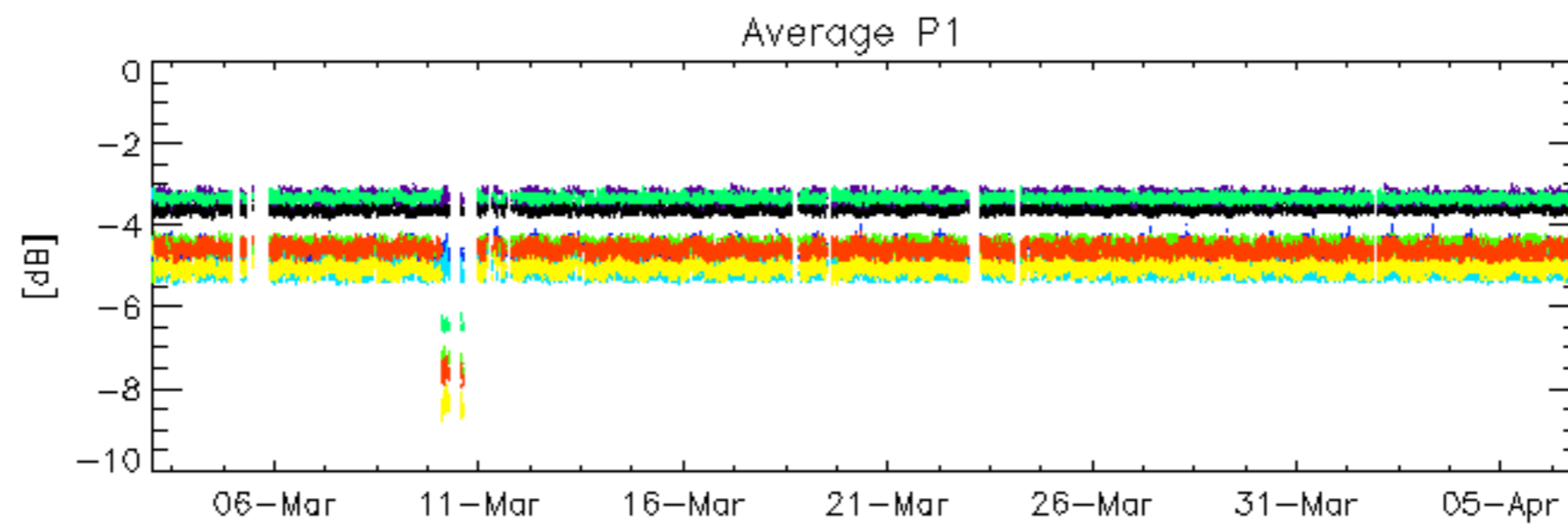
### 6.3 - Doppler evolution versus ANX

#### Evolution Doppler error versus ANX

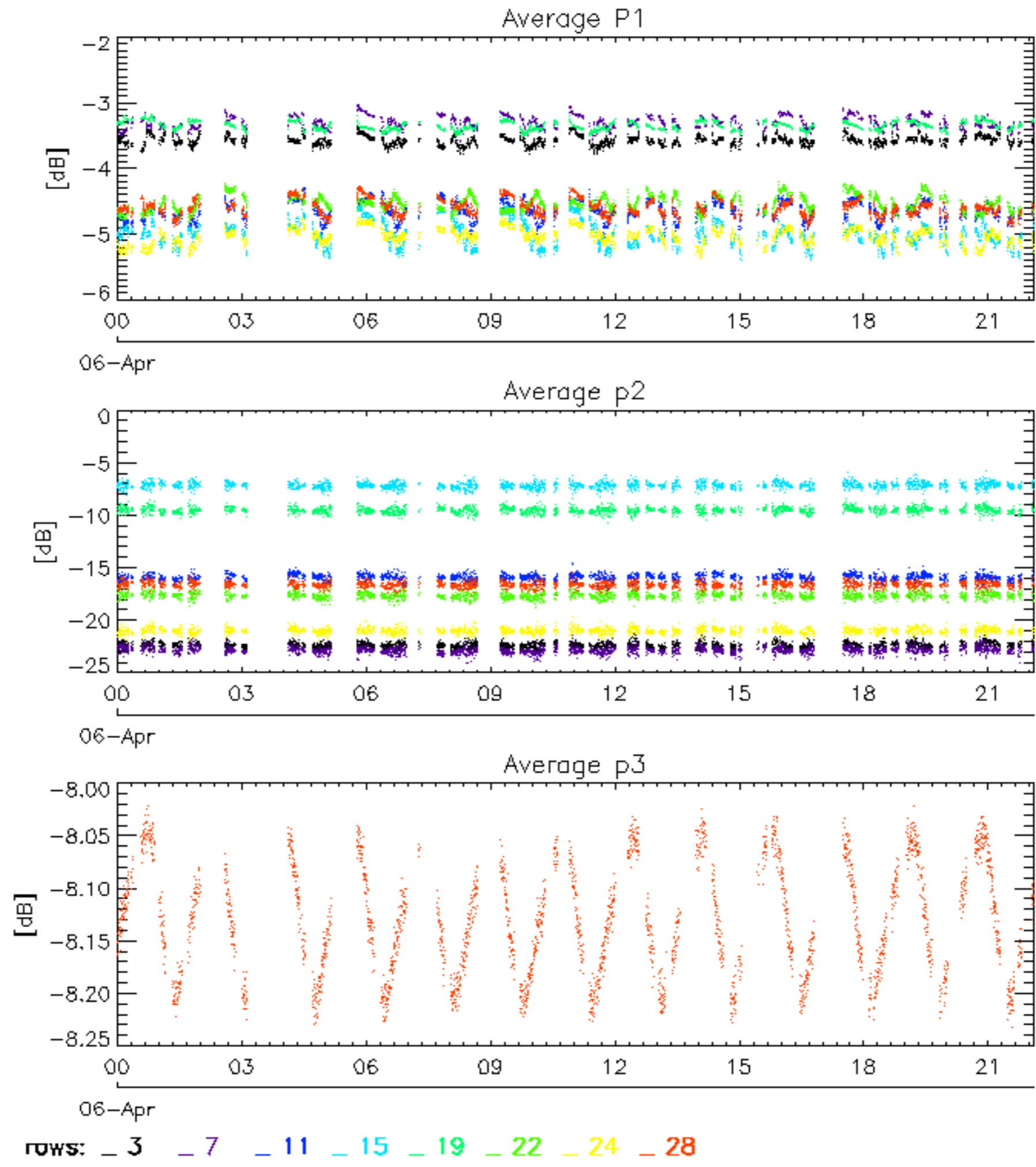


#### Evolution Doppler error versus ANX





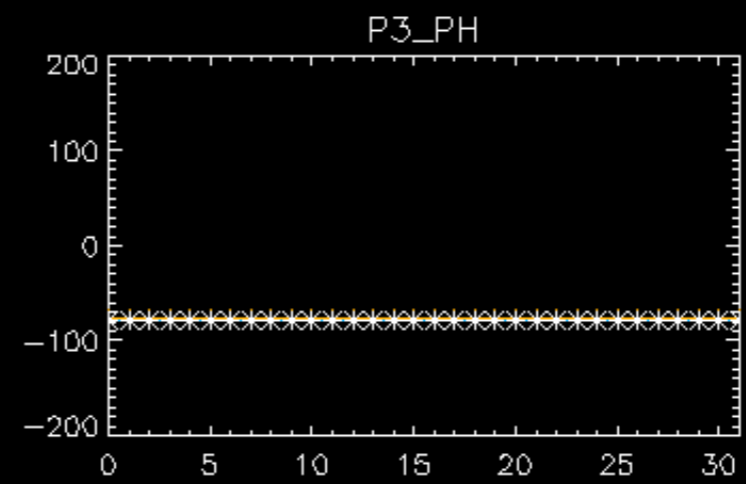
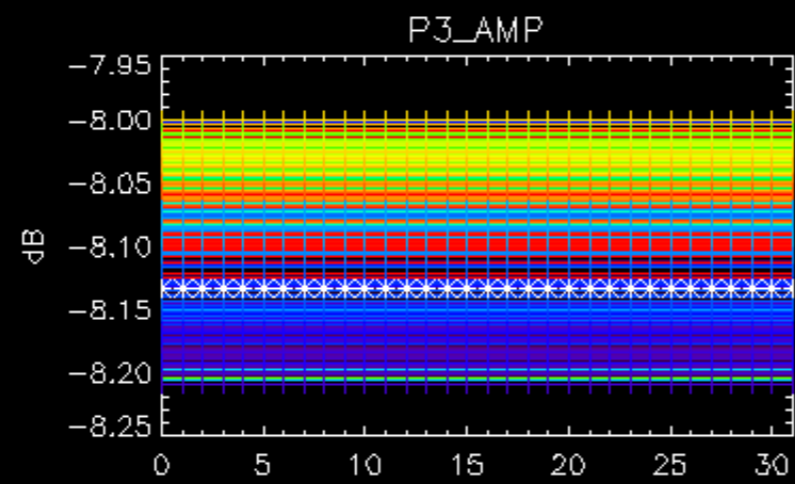
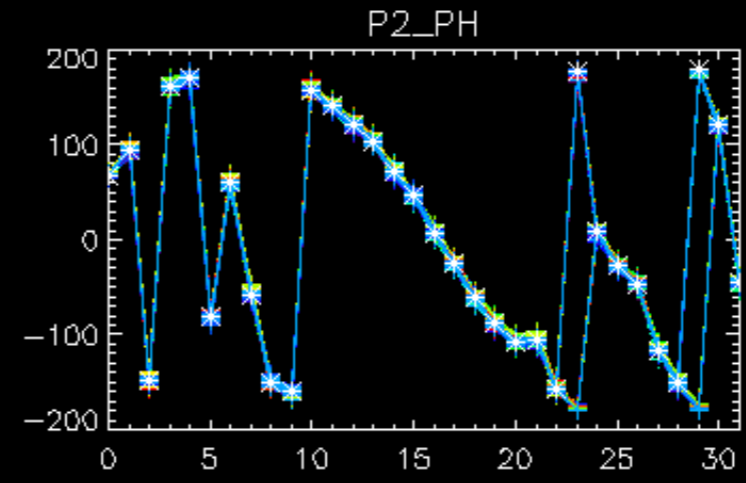
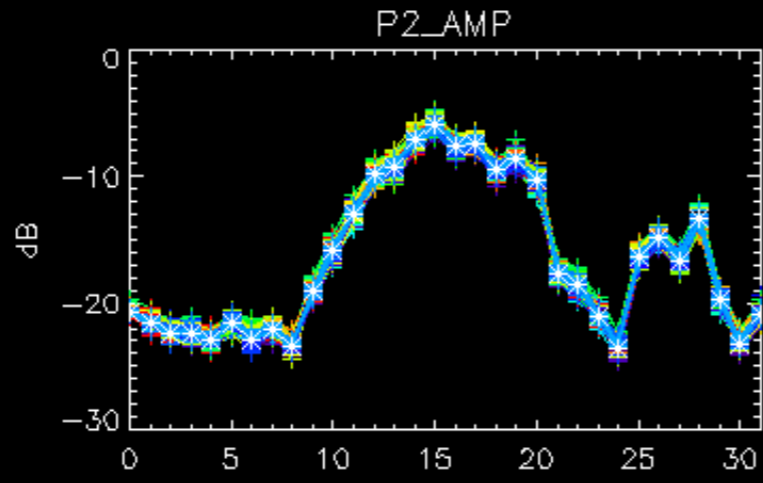
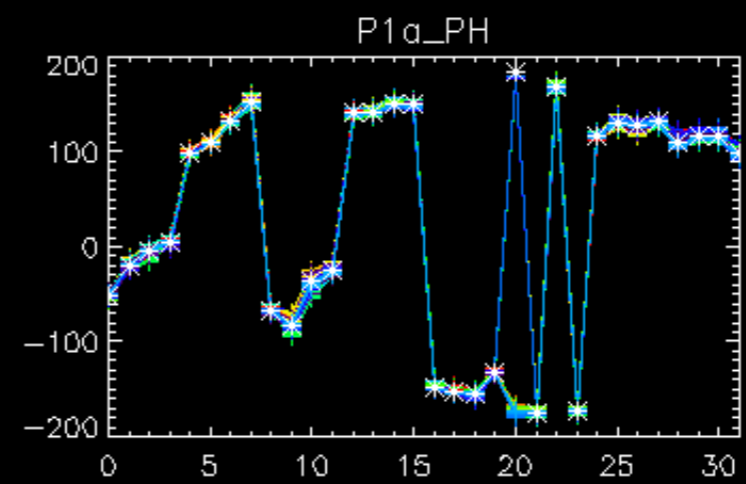
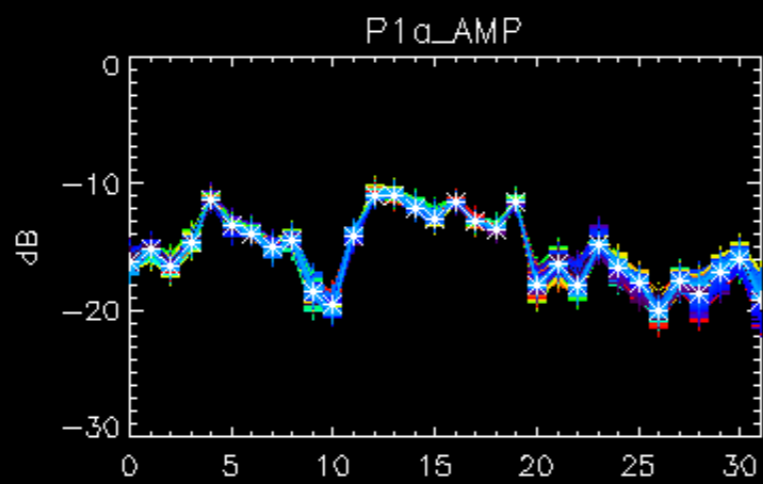
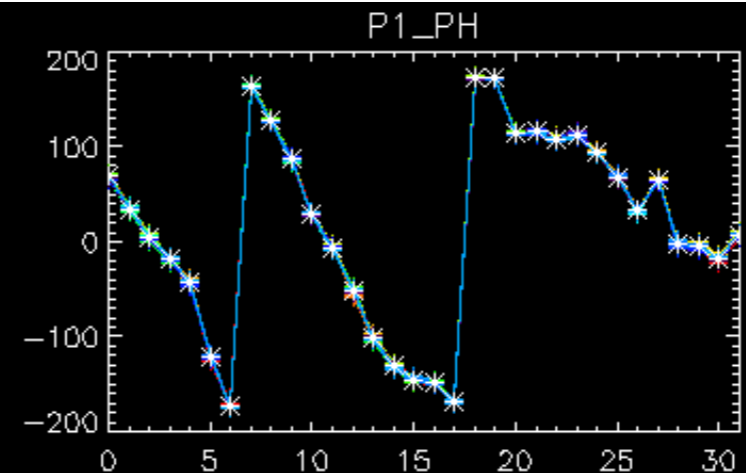
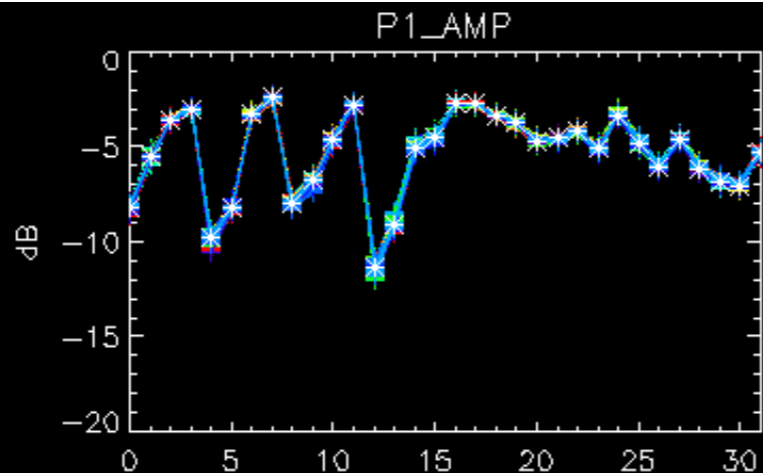
rows: \_ 3 \_ 7 \_ 11 \_ 15 \_ 19 \_ 22 \_ 24 \_ 28



No anomalies observed on available browse products

No anomalies observed.

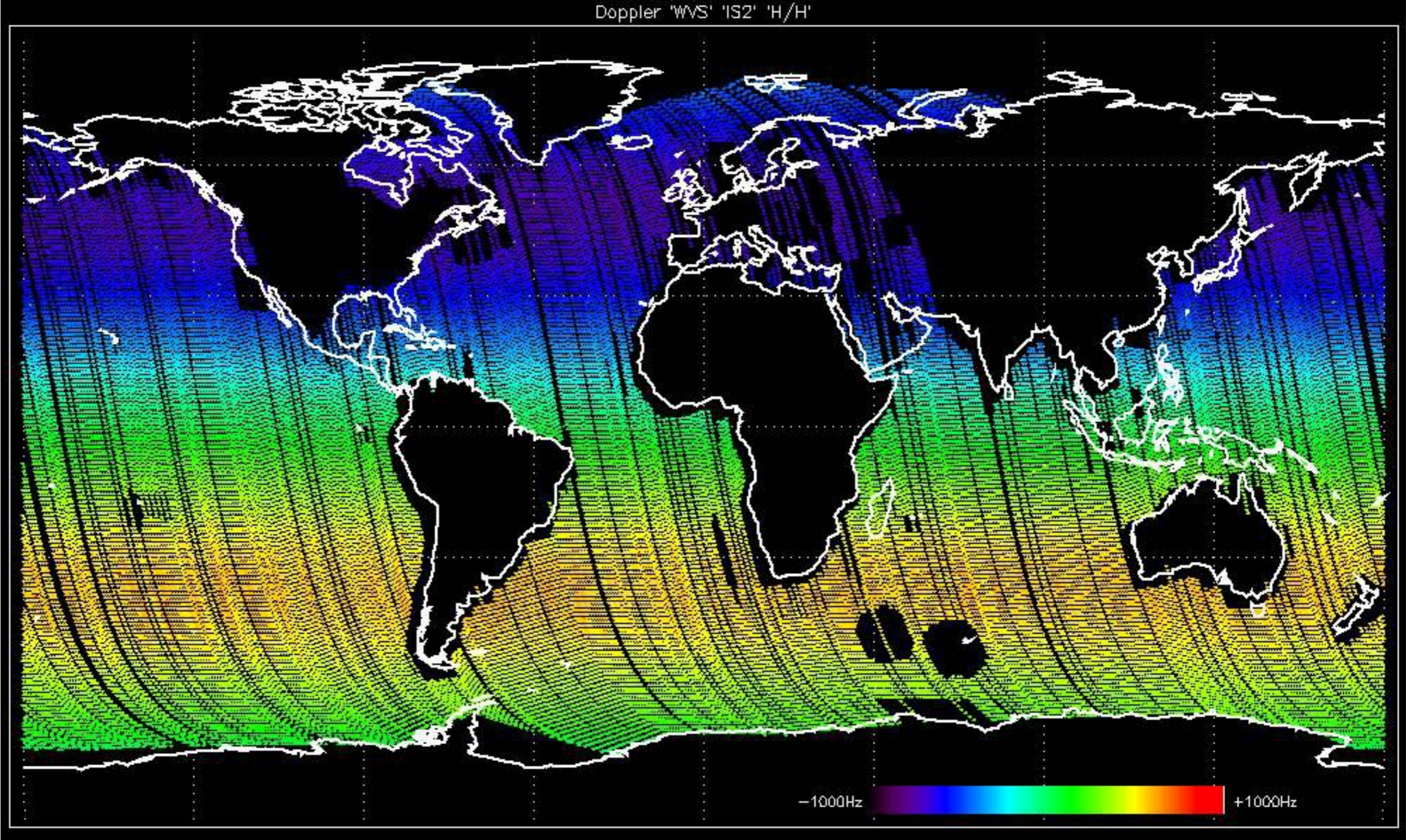




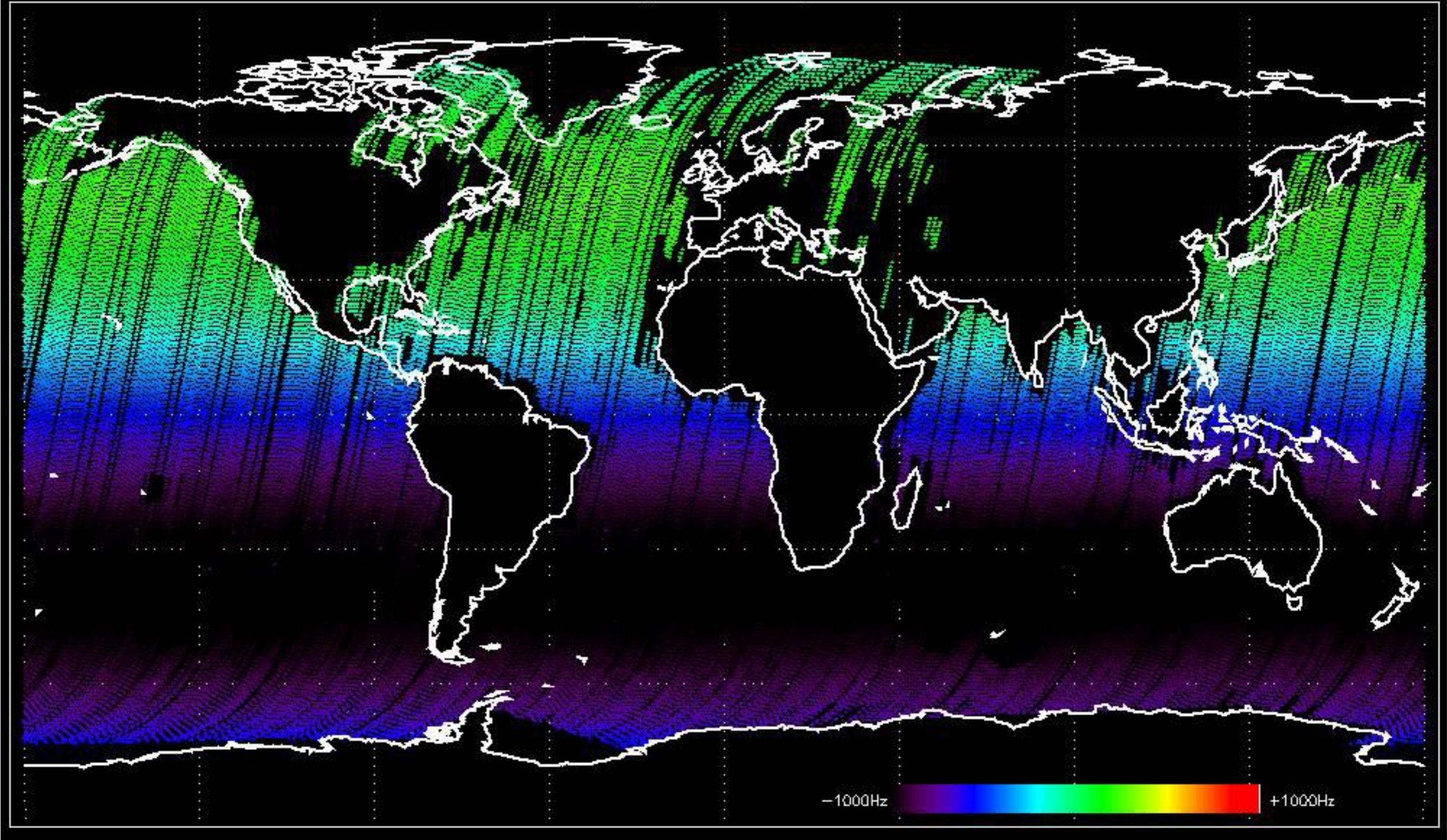
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

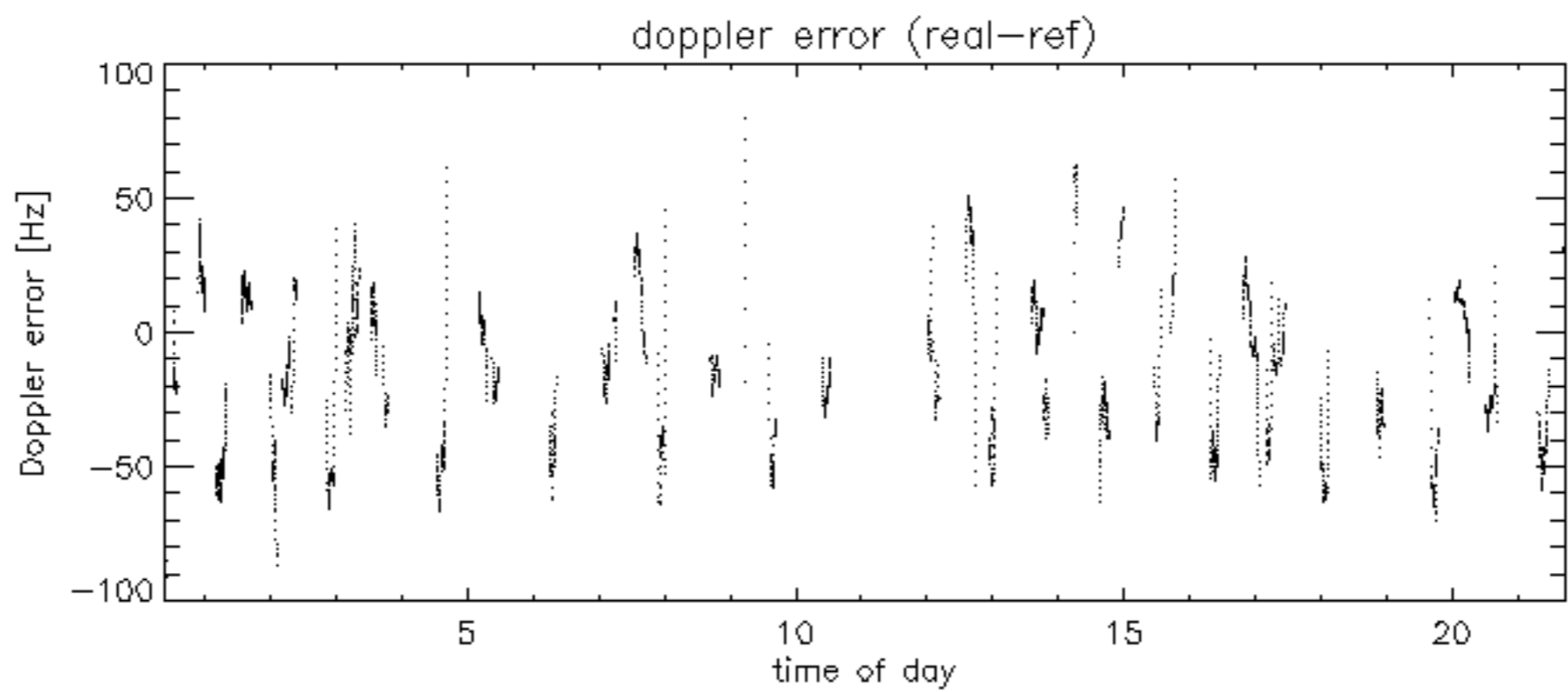
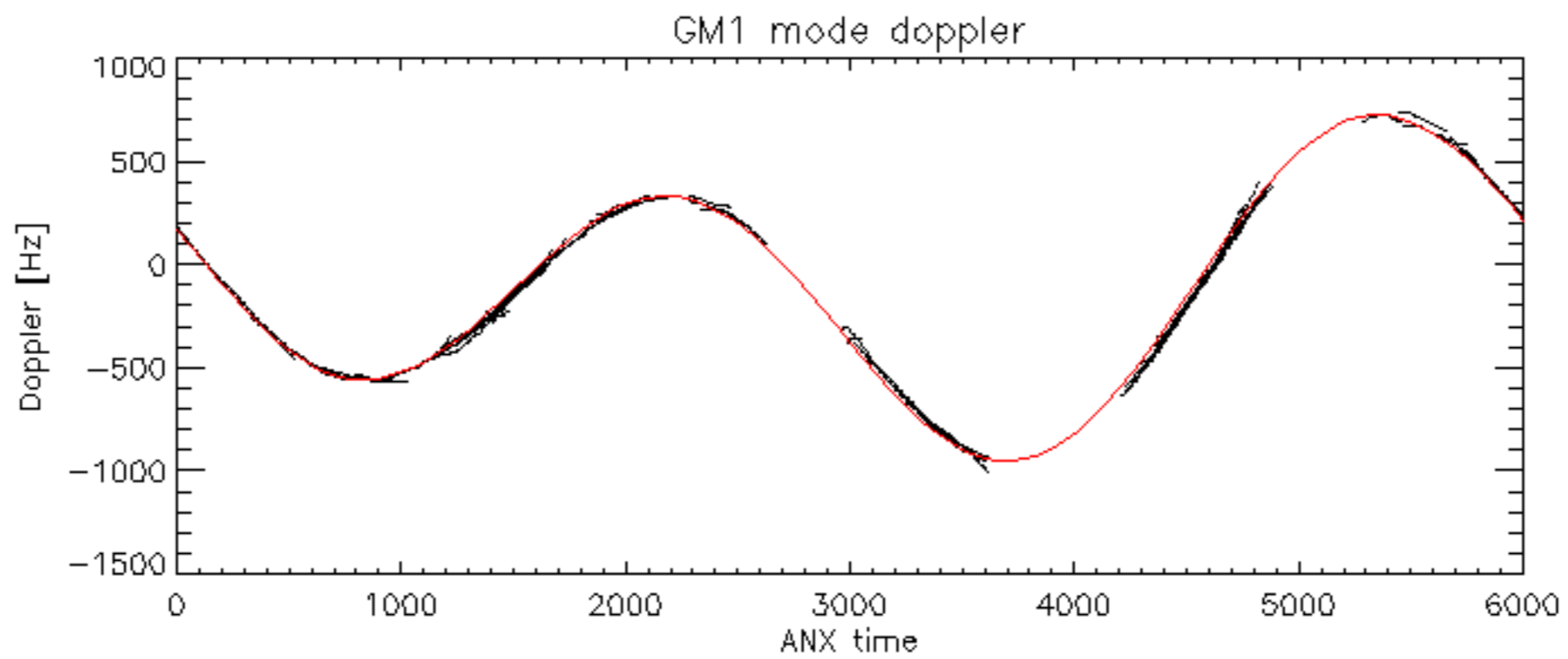
No anomalies observed in Doppler evolution.  
Analysis performed over the last 35 days.

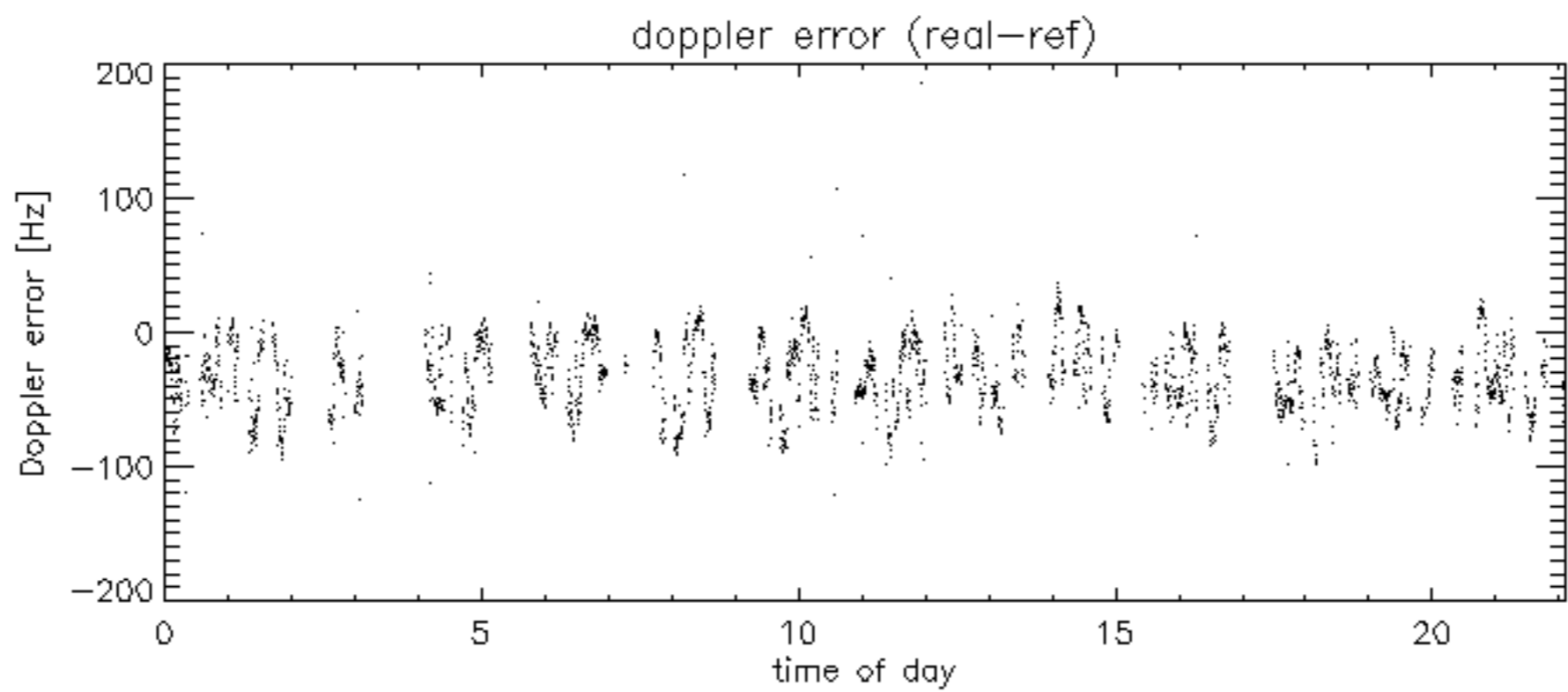
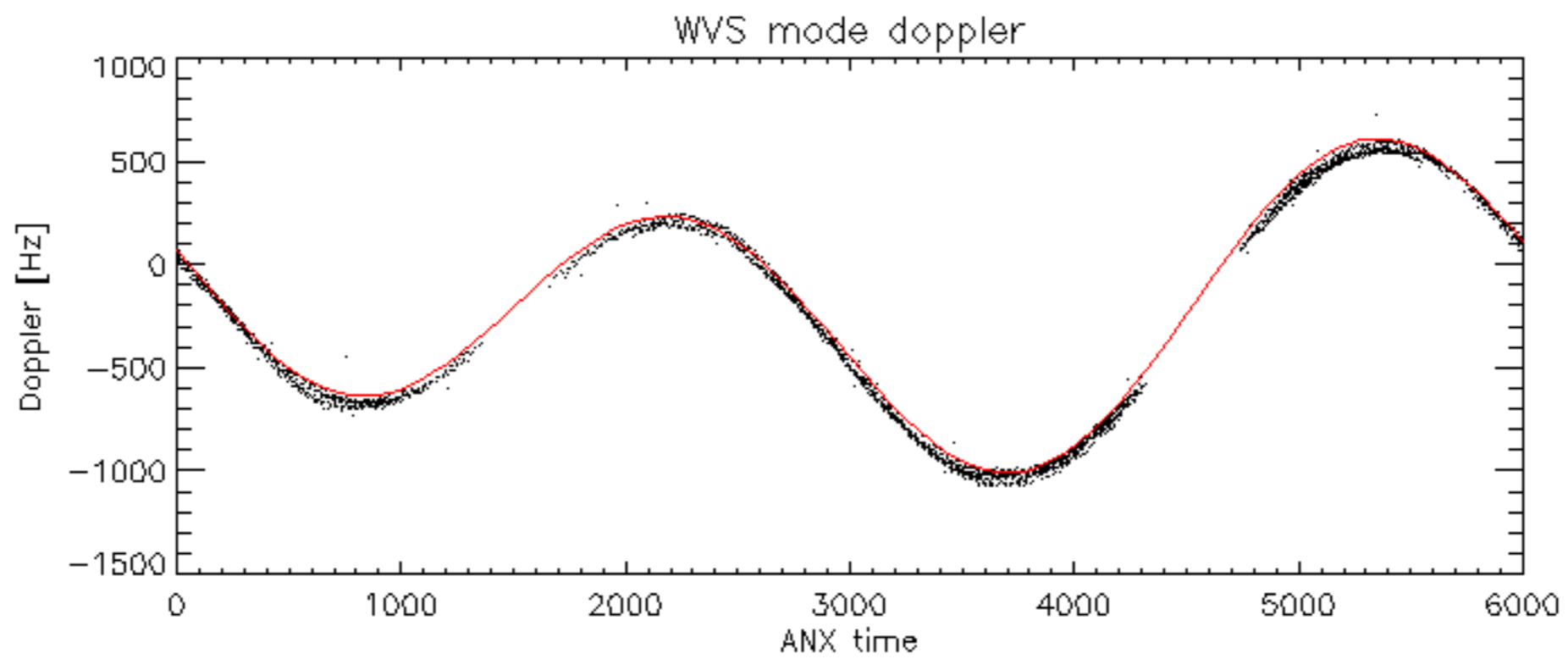
Doppler 'WVS' 'IS2' 'H/H'



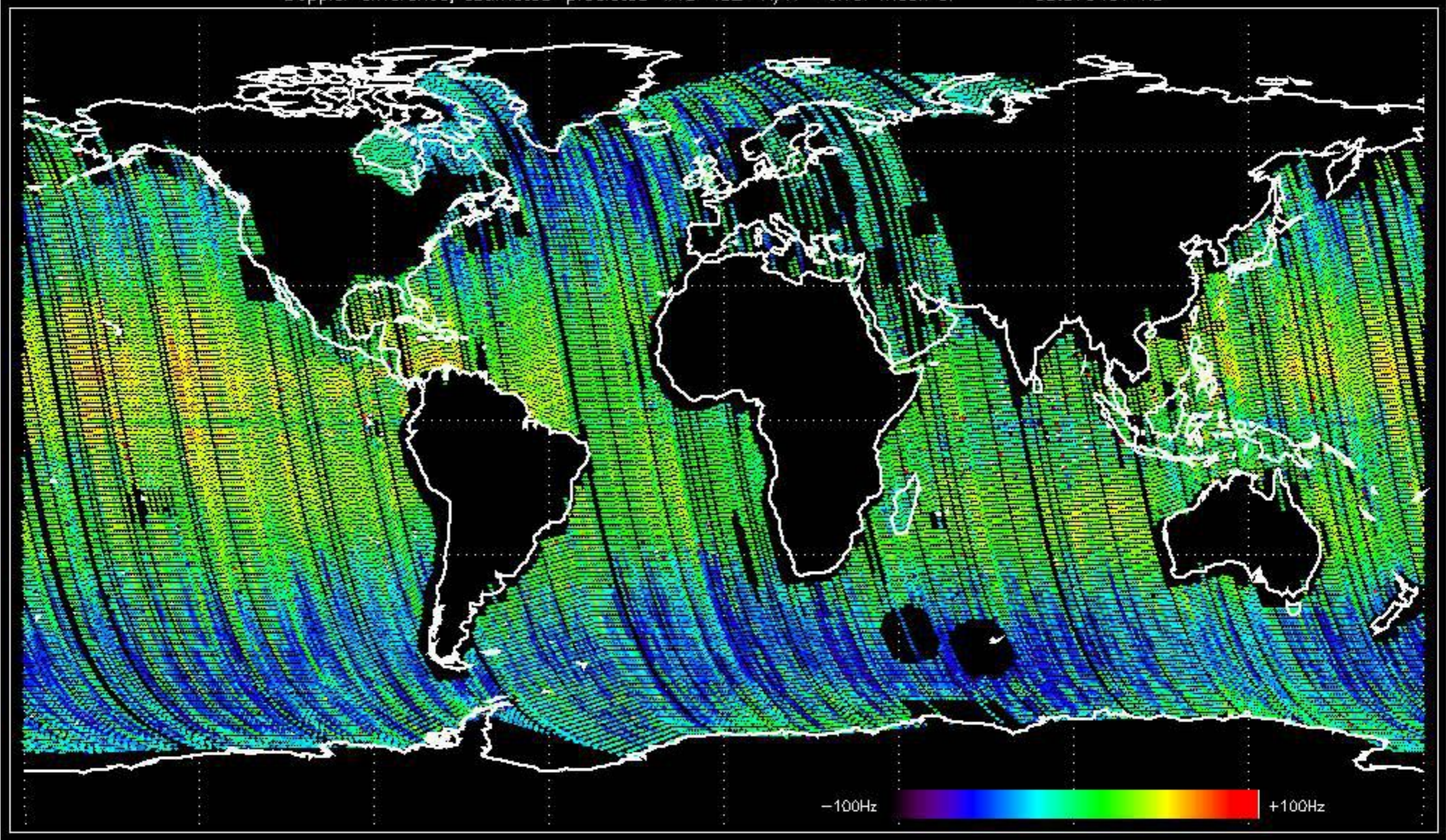
Doppler 'WVS' 'IS2' 'V/V'





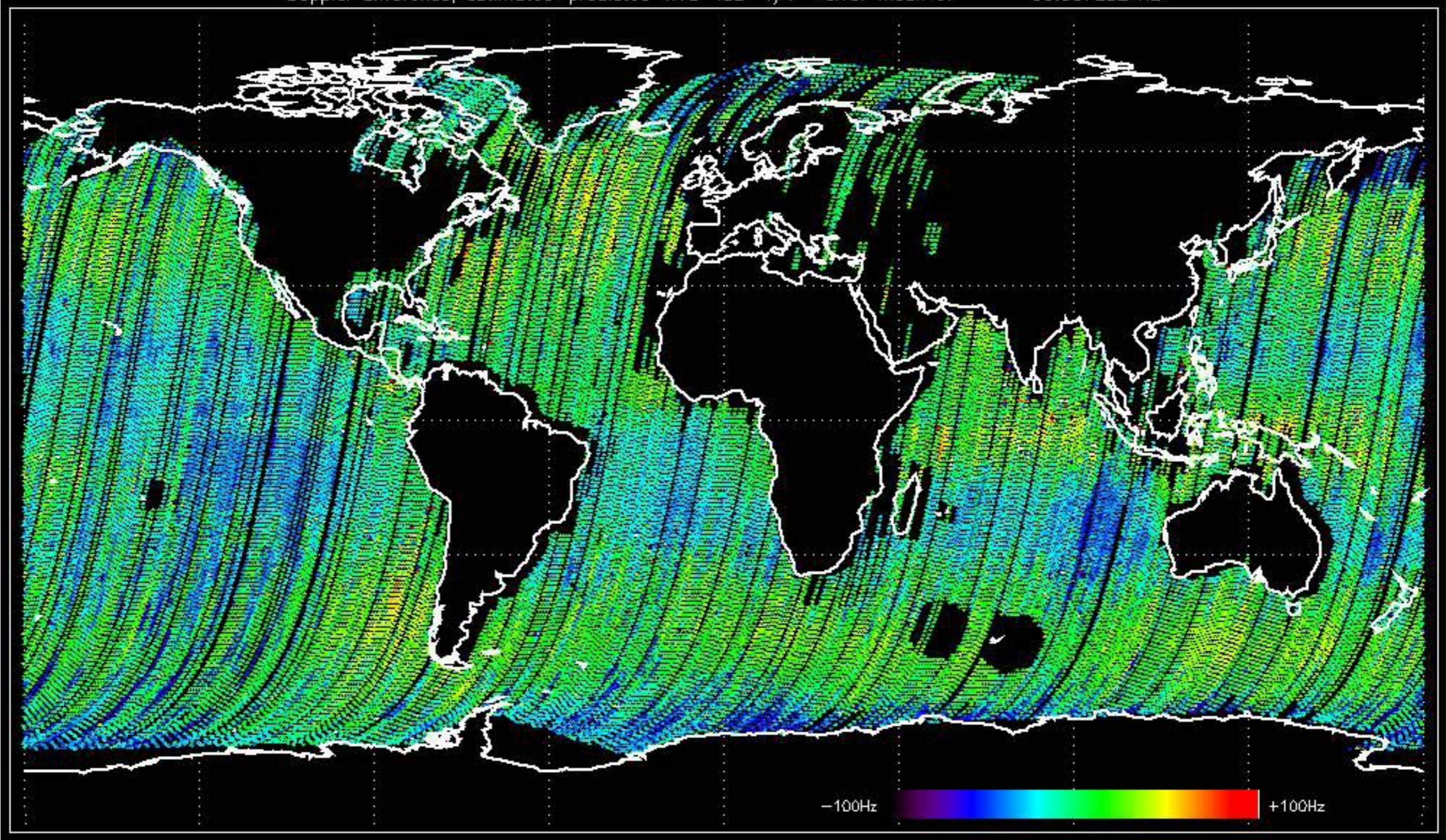


Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -33.579437 Hz





Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -30.307252 Hz



-100Hz +100Hz

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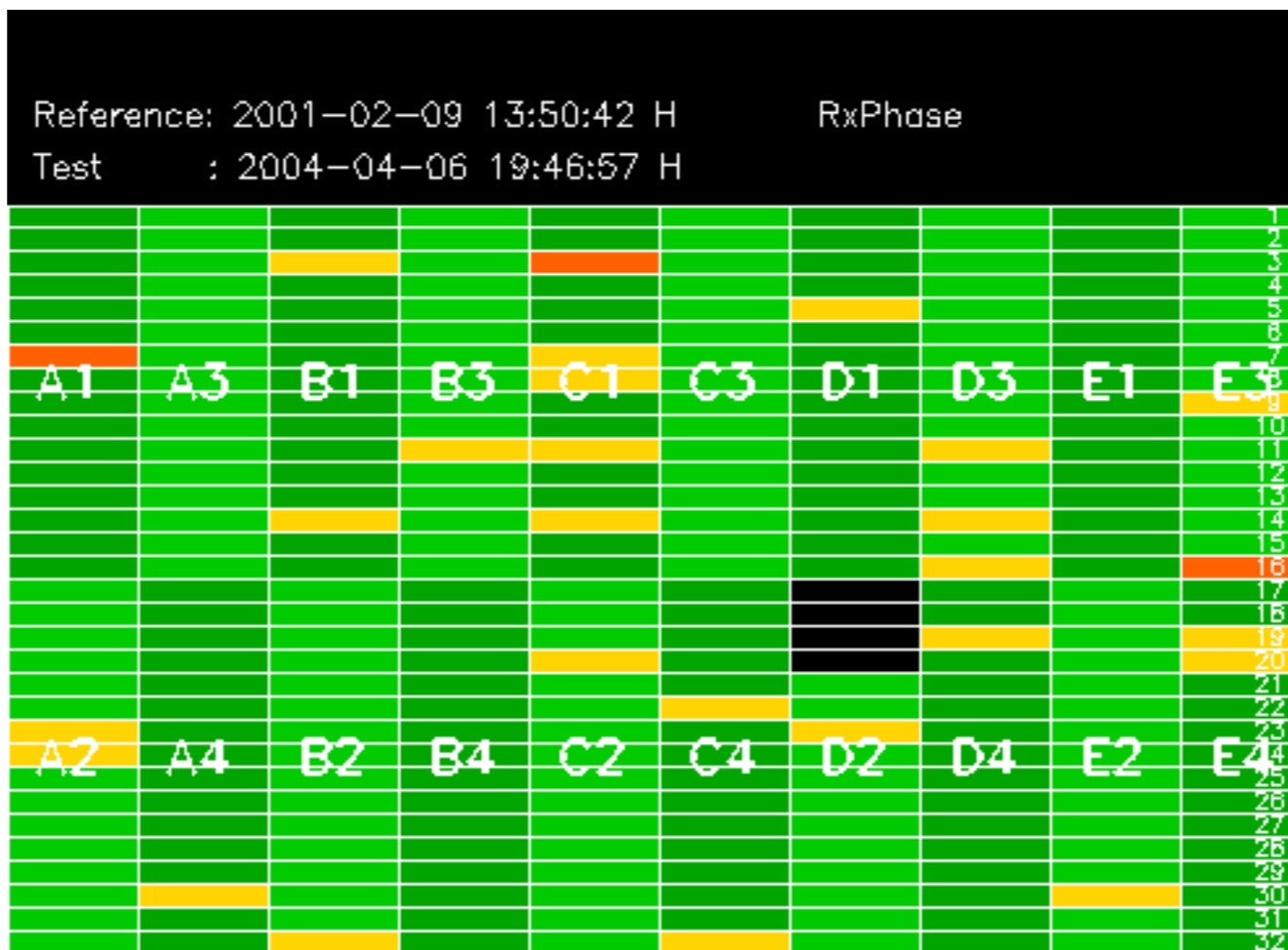
No anomalies observed.









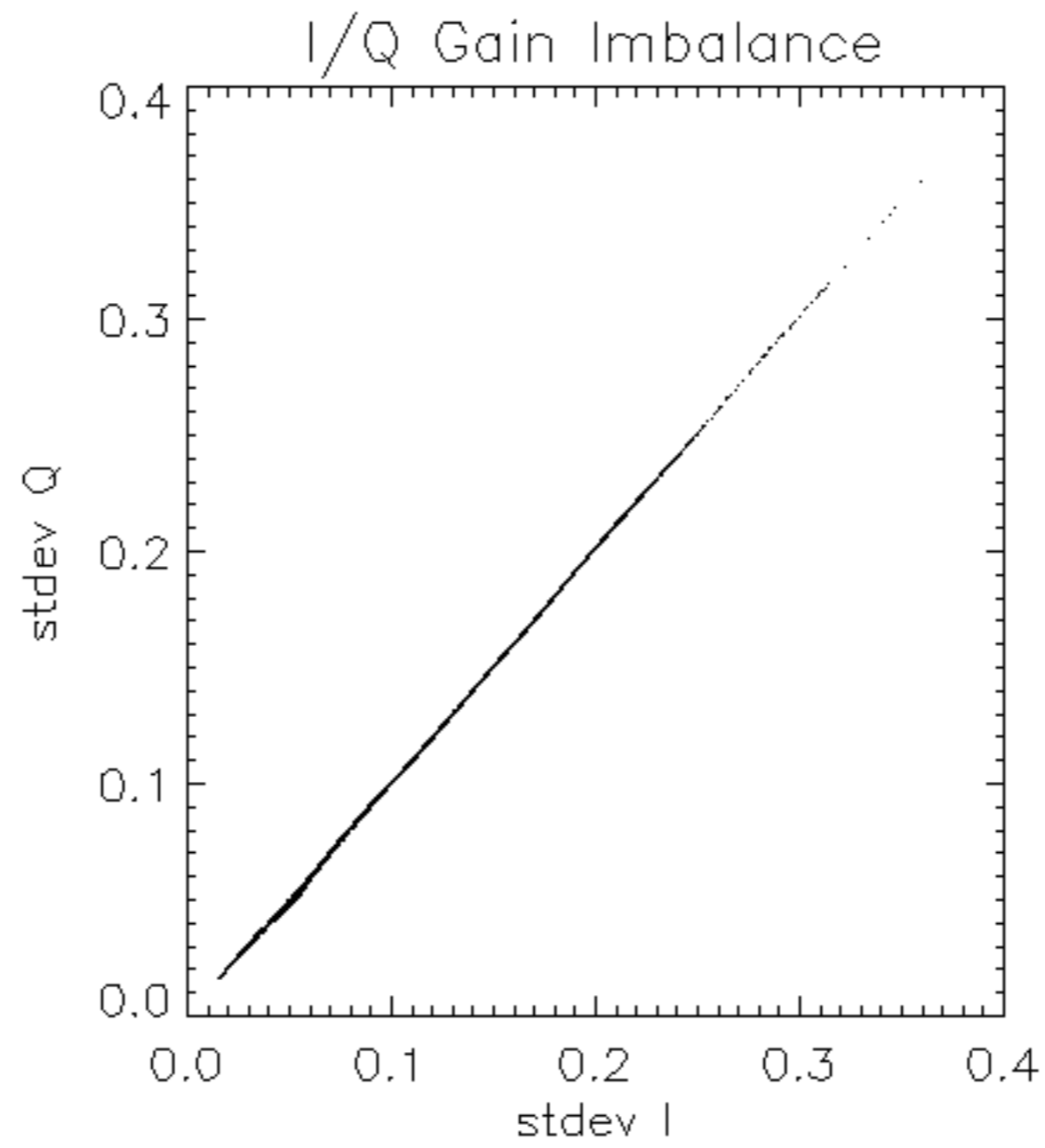


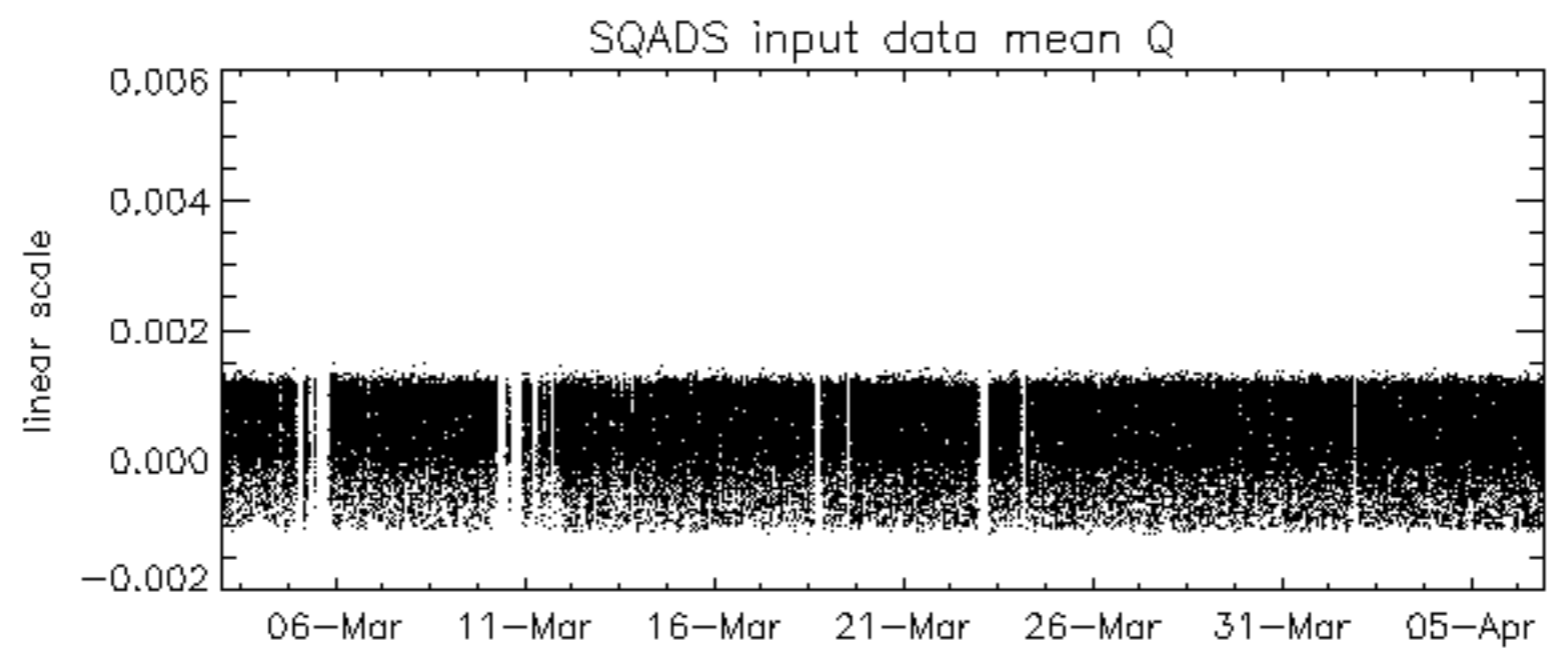
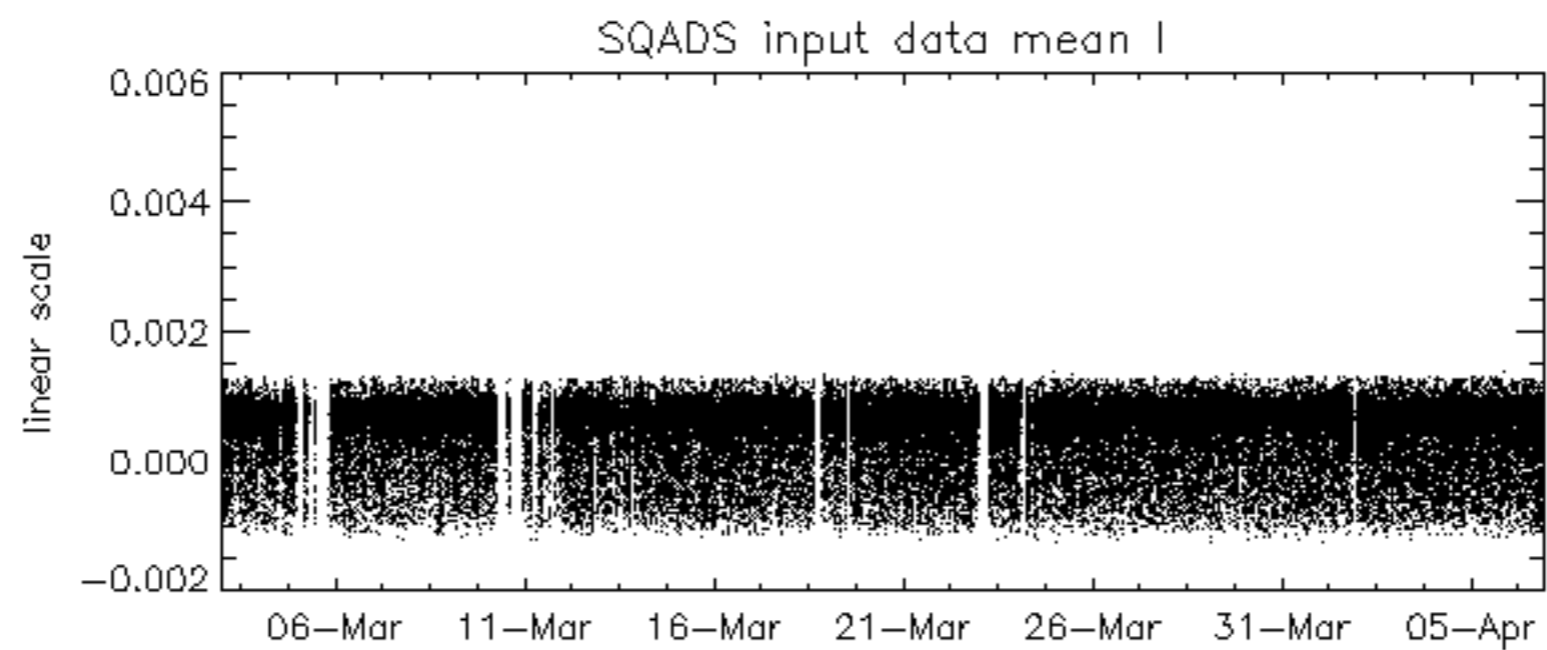
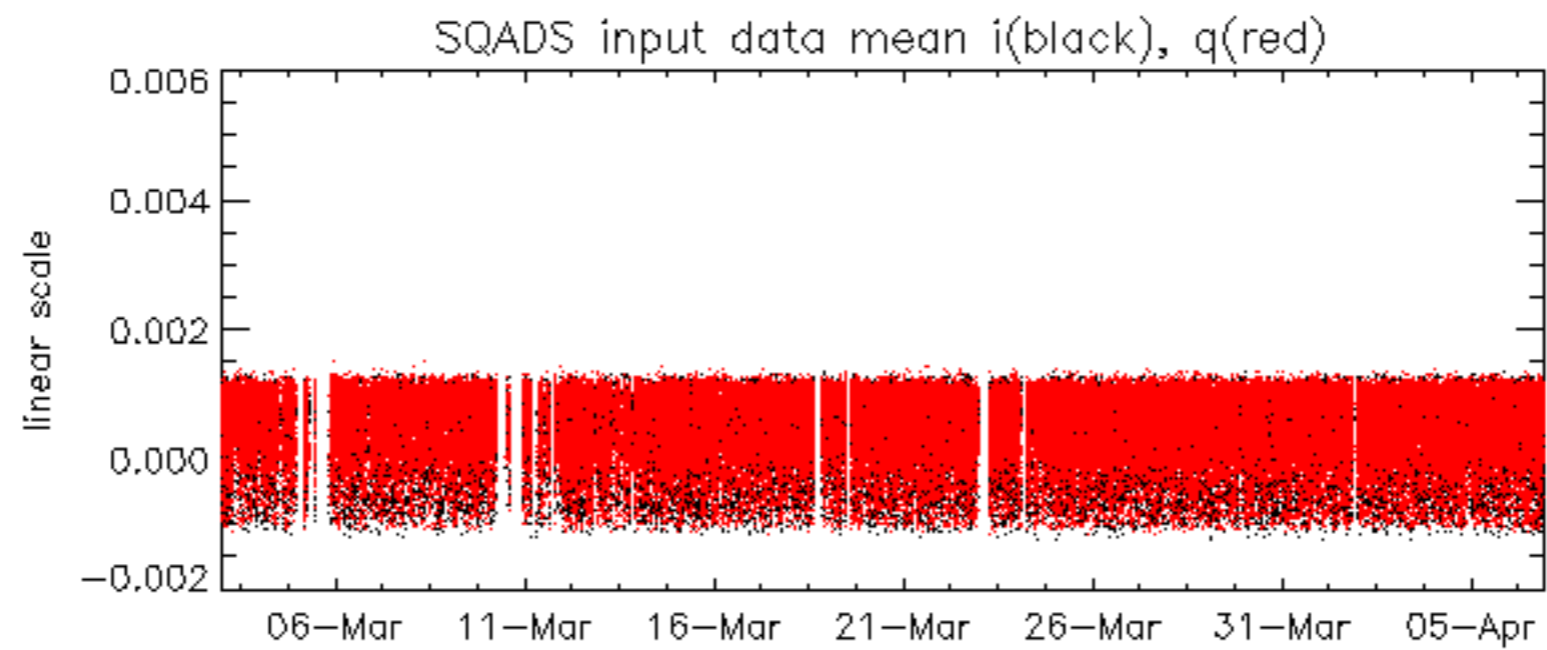


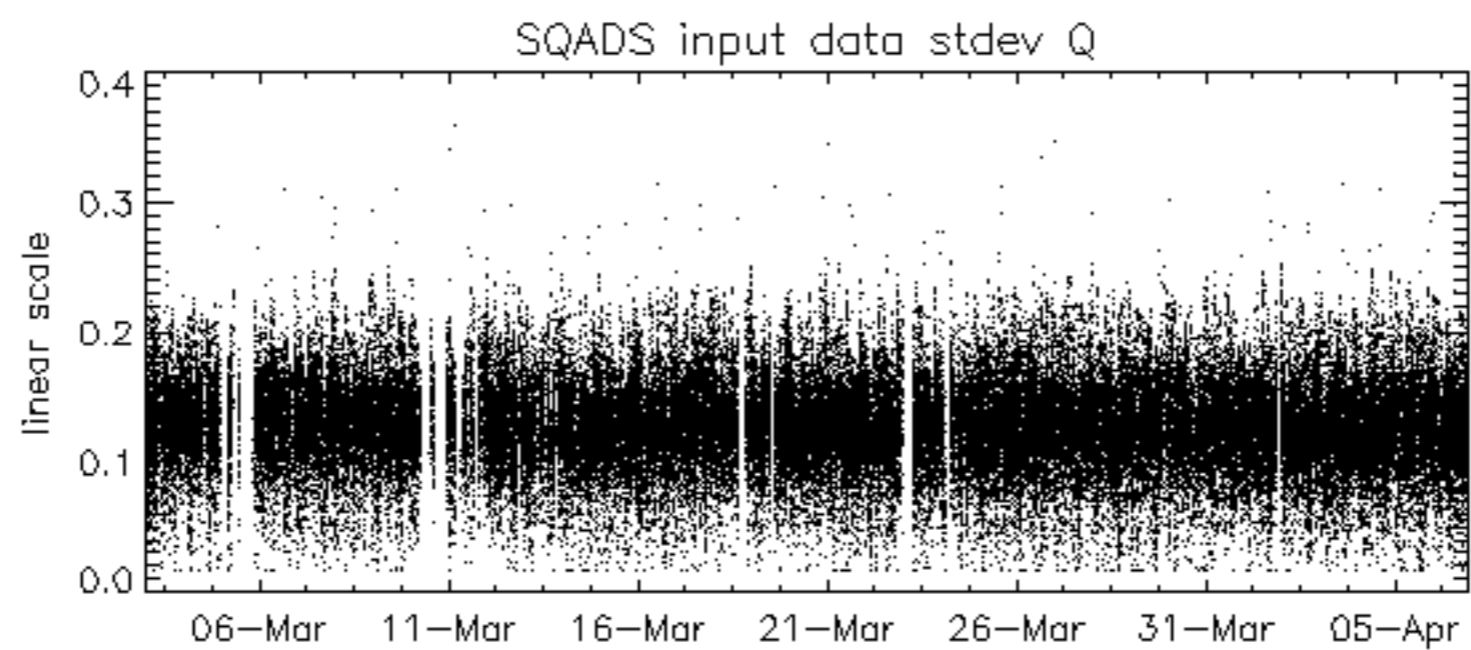
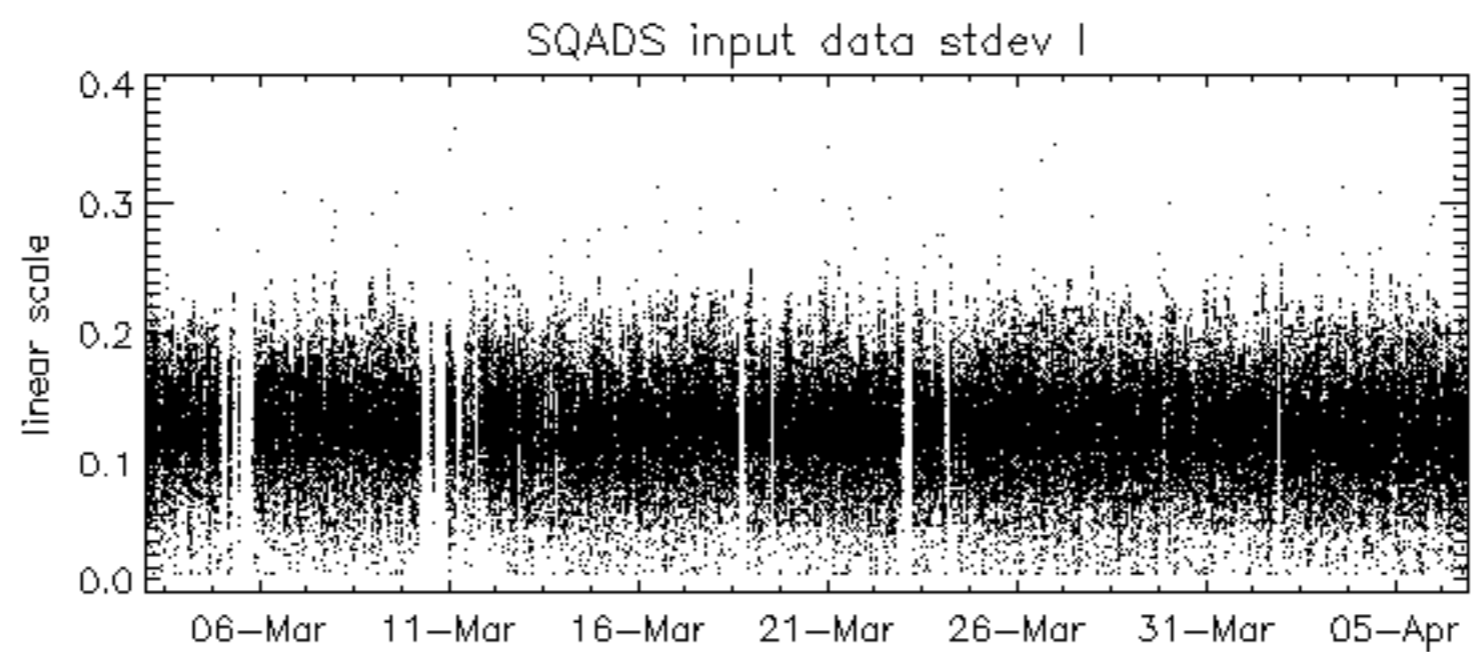
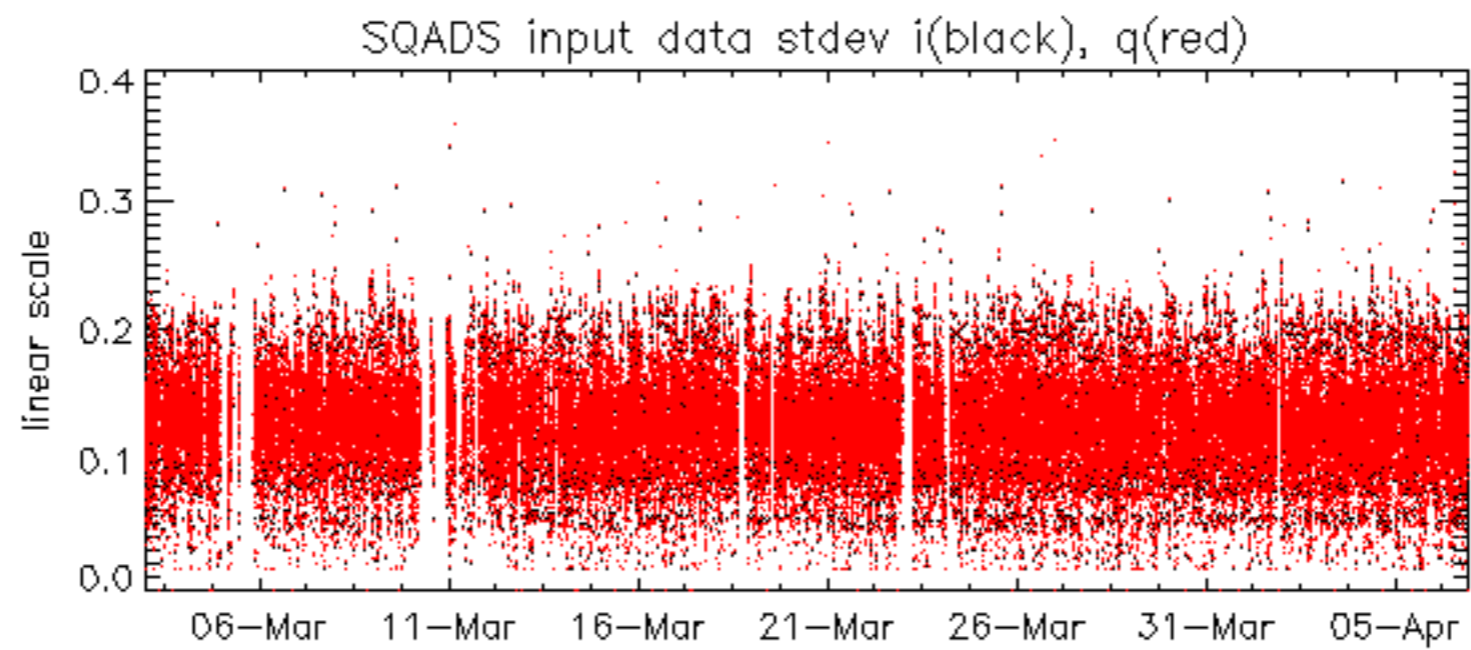












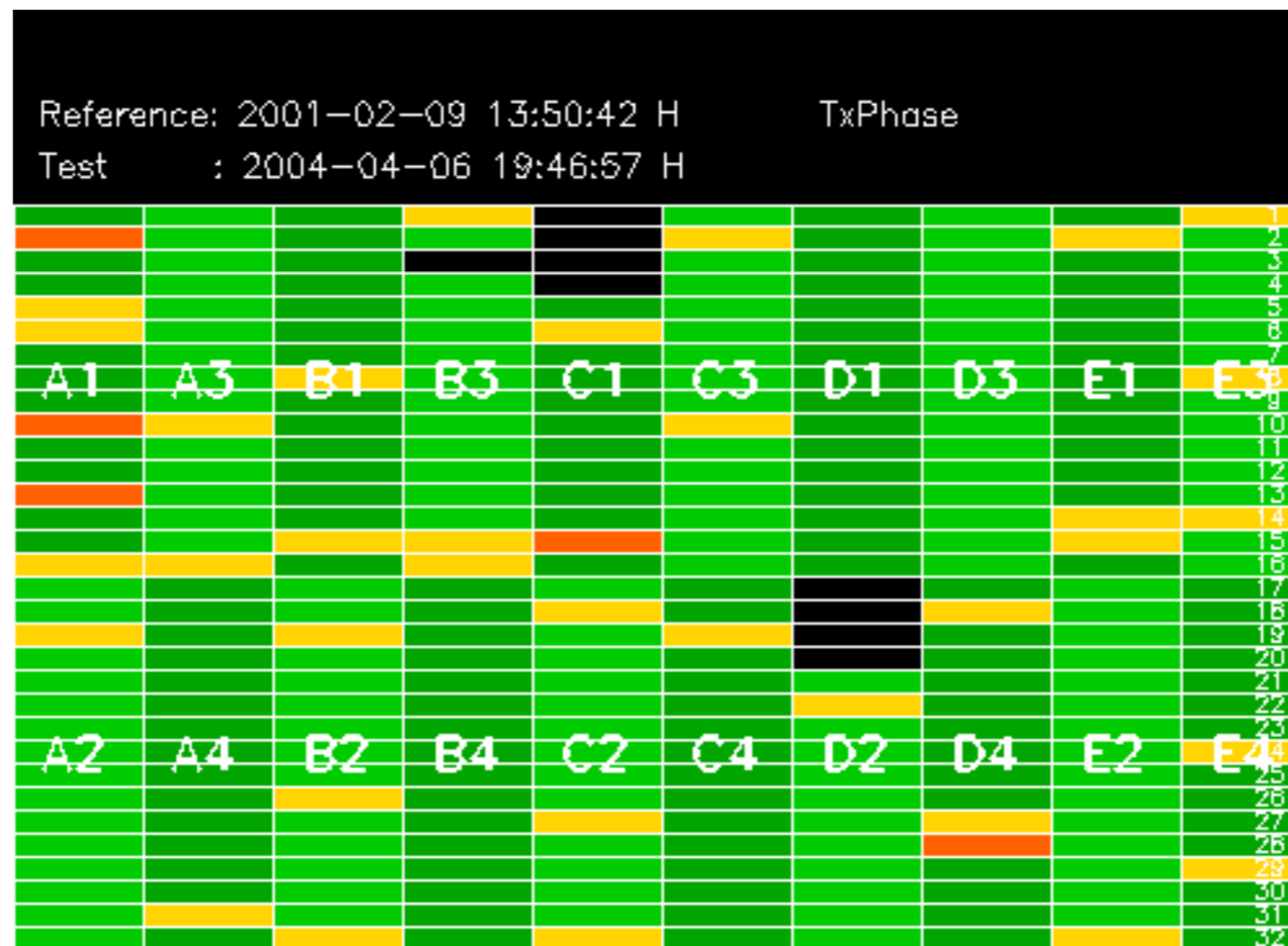


















No unavailabilities during the reported period.